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SHEET 1 OF 4

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.	APPLICATION NO.
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (USE SEVERAL SHEETS IF NECESSARY)				MASIMO.7CP1C4	09/144,897
		APPLICANT		M. Diab et al.	
		FILING DATE		GROUP	
		September 1, 1998		Unknown	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
2		4 8 0 0 4 9 5	1/24/89	Smith			
1		4 8 2 4 2 4 2	4/25/89	Frick et al.			
		4 8 6 3 2 6 5	9/5/89	Flower et al.			
		4 8 6 7 5 7 1	9/19/89	Frick et al.			
		4 8 9 2 1 0 1	1/9/90	Cheung et al.			
		4 9 0 7 5 9 4	3/13/90	Muz			
		4 9 1 1 1 6 7	3/27/90	Corenman et al.			
		4 9 2 8 6 9 2	5/29/90	Goodman et al.			
←		4 9 5 5 3 7 9	9/11/90	Hall			
		5 0 5 7 6 9 5	10/15/91	Hirao et al.			

FOREIGN PATENT DOCUMENTS

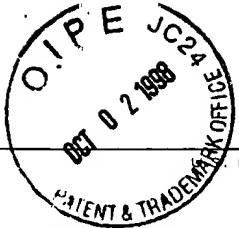
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

Σ	1.	Rabiner, Lawrence et al. <u>Theory and Application of Digital Signal Processing</u> , p. 260, 1975.
Σ	2.	Tremper, Kevin et al., <u>Advances in Oxygen Monitoring</u> , pp. 137-153, 1987.
Σ	3.	Harris, Fred et al., "Digital Signal Processing with Efficient Polyphase Recursive All-Pass Filters", Presented at International Conference on Signal Processing, Florence, Italy, Sept. 4-6, 1991, 6 pages.
Σ	4.	Haykin, Simon, <u>Adaptive Filter Theory</u> , Prentice Hall, Englewood Cliffs, NJ, 1991.
Σ	5.	Widrow, Bernard, <u>Adaptive Signal Processing</u> , Prentice Hall, Englewood Cliffs, NJ 1985.

EXAMINER	Σ	DATE CONSIDERED
		6/27/03

\*EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



FORM PTO-1449 601 PATENT & TRADEMARK OFFICE		DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.  MASIMO.7CP1C4	APPLICATION NO.  09/144,897
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		APPLICANT  M. Diab et al.		
		FILING DATE  September 1, 1998	GROUP  Unknown	
(USE SEVERAL SHEETS IF NECESSARY)				

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 2 7 3 0 3 6	12/28/93	Kronberg et al.			
	3 6 4 7 2 9 9	3/7/72	Lavallee			
	3 7 0 4 7 0 6	12/5/72	Herczfeld et al.			
	4 0 6 3 5 5 1	12/20/77	Sweeney			
	4 0 8 6 9 1 5	5/2/78	Kofsky et al.			
	4 0 9 5 1 1 7	6/13/78	Nagy			
	4 4 0 7 2 9 0	10/4/83	Wilber			
	4 5 3 7 2 0 0	8/27/85	Widrow			
	4 6 4 9 5 0 5	3/10/87	Zinser, Jr. et al.			
	4 7 7 3 4 2 2	9/27/88	Isaacson et al.			

## FOREIGN PATENT DOCUMENTS

**OTHER DOCUMENTS** (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

6.	Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies", Master's thesis, University of Washington, 11/25/87, pp. 1-142.
7.	Cohen, Arnon, "Volume I" Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., Boca Raton, Florida, pp. 152-159.
8.	Severinghaus, J.W., "Pulse Oximetry Uses and Limitations", pp. 1-4, ASA Convention, New Orleans, 1989.
9.	Mook, G.A., et al., "Spectrophotometric determination of Oxygen saturation of blood independent of the presence of indocyanine green", Cardiovascular Research, Vol. 13, pp. 233-237, 1979.

**EXAMINER**

DATE CONSIDERED

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	4 7 9 9 4 9 3	1/24/89	DuFault				
	4 8 4 8 9 0 1	7/18/89	Hood, Jr.				
	4 8 6 0 7 5 9	8/29/89	Kahn et al.				
	4 8 6 9 2 5 3	9/26/89	Craig, Jr. et al.				
	4 8 6 9 2 5 4	9/26/89	Stone et al.				
	4 8 8 3 3 5 3	11/28/89	Hausman				
	4 9 2 7 2 6 4	5/22/90	Shiga et al.				
	4 9 4 8 2 4 8	8/14/90	Lehman				
	4 9 5 6 8 6 7	9/11/90	Zurek et al.				
	5 4 5 8 1 2 8	10/17/95	Pulanyi et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
							YES
							NO
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
S	10.	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", <u>Continuous Transcutaneous Monitoring</u> , Plenum Press, New York, 1987, pp. 135-144.					
	11.	Mook, G.A., et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", <u>Clinical Chemistry Acta</u> , Vol. 26, pp. 170-173, 1969.					
12.	Klimasauskas, Casey, "Neural Nets and Noise Filtering", <u>Dr. Dobb's Journal</u> , January 1989, pg. 32.						
S	13.	Melnikof, S. "Neural Networks for Signal Processing: A Case Study", <u>Dr. Dobbs Journal</u> , January 1989. pg.36-37					
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EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE			
		4	7	2	3	2	9	4	02/02/88	Taguchi				
		4	8	1	9	7	5	2	04/11/89	Zelin				
		4	9	6	0	1	2	6	10/02/90	Conlon et al.				
		5	2	4	6	0	0	2	09/21/93	Prosser				
		5	6	6	2	1	0	5	09/02/97	Tien				
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER				DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION			
	S U	1	6	7	4	7	9	8	9/91	Abstract from Database WPI,	Derwent	Publications	YES	NO
	9 2 /	1	5	9	5	5			17/09/92	PCT				
<b>OTHER DOCUMENTS</b> (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)														
2	14.	Jingzheng, Ouyang et al., "Digital Processing of High-Resolution Electrocardiograms--Detection of His-Purkinje Activity from the Body Surface", <u>Biomedizinische Technik</u> , 33, 1 October 1988, No.10, Berlin, W. Germany, pp. 224-230.												
2	15.	Chen, Jiande, et al., "Adaptive System for Processing of Electrogastric Signals", <u>Images of the Twenty-First Century</u> , Seattle, WA, vol. 11, Nov. 9-12, 1989. pp. 698-699.												
2	16.	Varanini, M. et al., "A Two Channel Adaptive Filtering Approach for Recognition of the QRS Morphology", <u>Proceedings of the Computers in Cardiology Meeting</u> , Venice, Sept. 23-26, 1991, Institute of Electrical and Electronics Engineers, pp. 141-144.												
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